BRUHATH BANGALORE MAHANAGARA PALIKE

DASARAHALLI ZONE

Office of the Executive Engineer Dasarahalli Division

Modified Schedule- B

Name of work: Improvements to roads and Drains in KG Halli Gurunath Lay Out and Surrounding area in Ward No 12 Shettyhalli Sub Division.

Sl no	Description	Unit	Qty	Modified Approved Rate	
				In figures (Rs)	InWords (Rs)
1	2	3	4	5	6
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	2299.71	111.30	Rupees One Hundred Eleven and Thirty Paise Only
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	1753.99	233.20	Rupees Two Hundred Thirty Three and Twenty Paise Only
3	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	4218.11	6.36	Rupees Six and Thirty Six Paise Only
4	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	278.30	1400.00	Rupees One Thousand Four Hundred Only
5	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	468.84	1600.00	Rupees One Thousand Six Hundred Only
6	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of0.60 kg / sqm using mechanical meanscomplete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	4077.74	29.68	Rupees Twenty Nine and Sixty Eight Paise Only

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7	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	919.48	12.72	Rupees Twelve and Seventy Two Paise Only
8	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II Cum (50 mm to 75 mm) with 4.5 % VG-30 Bitumen .complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	45.97	8500.00	Rupees Eight Thousand Five Hundred Only
9	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.using 40-60	Cum	153.91	14500.00	Rupees Forteen Thousand Five Hundred Only
10	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/Concrete Surface: Providing and laying of hot applied thermoplasticcompound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	302.74	450.00	RupeesFour Hundred Fifty Only
11	Cement Concrete Pavements KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. complete as per the specification & as per direction of Engineer-in-charge of the work **Up to 125%**	Cum	190.31	3900.00	Rupees Three Thousand Nine Hundred Only

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	Up to 125%	Cum	128.43	4255.64	Rupees Four Thousand Two Hundred Fifty Five and Sixty Four Paise Only
12	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to18:383-2016, with Superplastizer at 3 Its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades,textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (complete as per the specification & as per direction of Engineer-in-charge of the work **Up to 125%**	Cum	190.31	5800.00	Rupees Five Thousand Eight Hundred Only
	Above 125%	Cum	300.73	6110.74	Rupees Six Thousand One Hundred Ten and Seventy Four Paise Only
ERIL 1	Providing and fixing precast reinforced cement concrete covering slabs of 10cm thick made out of M25 with OPC cement @340kgs per cum , 20mm and down size graded granite metal corse aggregtes @ 0.70cm and fine aggregates @ 0.74 cum with super plasticizers, machine mixed , inclding providing and removing centering, shuttering strutting propping etc., for edges of slab with TMT steel (Fe500) cost & reinforcement charges inclding finishing as required with cost of reinforcement etc., complete as directed by engineer incharge of the work	Sqm	170.10	1694.94	Rupees One Thousand Six Hundred Ninety Four and Ninty Four Paise Only

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BRUHATH BANGALORE MAHANAGARA PALIKE,
DASARAHALLI ZONE
Office of the Executive Engineer Dasarahalli Division

Schedule - B

NAME OF WORK: Improvements to road and drain K G Halli Gurunath Layout and surroundings in ward no 12 Shettyhalli

Sl. No	Description of work	Unit	Qty	Rates Quoted by Contractor Sri KUMARA B J (K B CONSTRUCTIONS)	
				In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	Removing & Refixing stone slabs of drains and pointing in C.M (1:3) complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	3066.00	111.3	Rupees One Hundred Eleven and Thirty Paise Only
2	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	1593.45	233.2	Rupees Two Hundred Thirty Three and Twenty Paise Only
3	Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	4129.50	6.36	Rupees Six and Thirty Six Paise Only
4	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	1062.92	1400.0	Rupees One Thousand Four Hundred Only

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5	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	929.14	1600.0	Rupees One Thousand Six Hundred Only
6	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of0.60 kg / sqm using mechanical meanscomplete as per the specification & as per direction of Engineer-in-charge of the work(Issued Rate	Sqm	4129.50	29.68	Rupees Twenty Nine and Sixty Eight Paise Only
7	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per the specification & as per direction of Engineer-in-charge of the work(Issued Rate 01/07/2020)	Sqm	4129.50	12.72	Rupees Twelve and Seventy Two Paise Only
8	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-ll Cum (50 mm to 75 mm) with 4.5 % VG-30 Bitumen .complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	218.30	8500.0	Rupees Eight Thousand Five Hundred Only

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9	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) complete as per the specification & as per direction of Engineer-in-charge of the work	Cum	130.98	14500.0	Rupees Fourteen Thousand Five Hundred Only
10	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/Concrete Surface: Providing and laying of hot applied thermoplasticcompound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per the specification & as per direction of Engineer-in-charge of the work	Sqm	274.50	450.0	Rupees Four Hundred Fifty Only

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